QUESTIONNAIRE FOR IZOD IMPACT MACHINE VERIFICATION

<u>IMPORTANT</u>: This questionnaire contains information to help you perform a successful verification test using SRM 2115. Energy results are required for verification. Other specific information is requested to help evaluate the condition of your machine. The questionnaire and the fractured specimens must be shipped to: Izod Program Coordinator, NIST, Division 853, 325 Broadway, Boulder, CO 80305-3328. Phone: 303/497-3351 Fax: 303/497-5939

Location of Machine

	Company		
	Address		
		State	
	City	Province Zip	
	Country	Postal Code	
M	ailing Add	ress for Verification Letter (if different from above)	
	Company		
	Address		
	radiess		
	C:1	State	
	City	Province Zip	
	Country	Postal Code	
Τe	est Machino	e (Circle appropriate units where indicated)	
1.	Machine M	Manufacturer	
2.	Machine S	Serial Number	
3.	what is the	e maximum energy capacity of the machine?(Joules or ft·lbf)	
4.	If the mach	hine is adjustable, what capacity was used for this test?	
5.	(Joules or ft-lbf) Your machine should be securely bolted to a concrete foundation or a steel block having a mass not less than 40 times that of the pendulum. Your machine should be leveled according to the requirements of the current ASTM Standard E23.		ıg
6.	inserts. The the bottom	andard E23 does not allow the use of expansion bolts or fasteners with driven in hese types of fasteners will work loose from the foundation and tighten up against n of the machine indicating a false torque value. Only J or T bolts are permitted by rd. What type of bolts are used to mount your machine? (J, lag, etc.)	
7.	Is your ma	achine equipped with a carbide striker and/or anvils?	

July 2006 Page 1 of 4

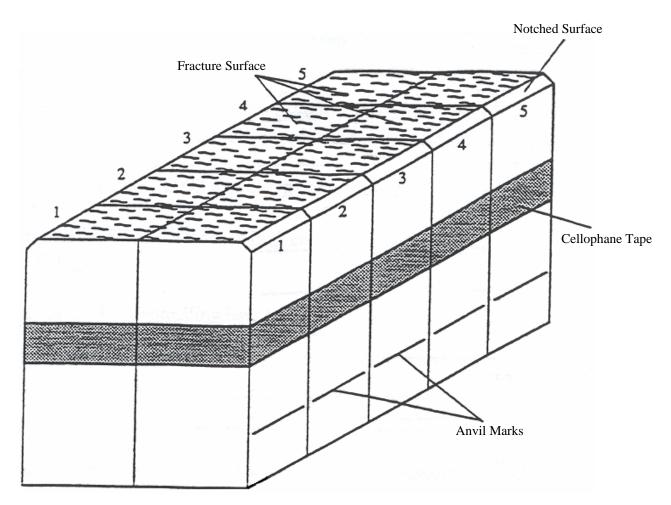
should read within 0.2 % of the maximum energy range being used.
9. What is the friction/windage loss of your machine?
(Joules or ft·lbf)
(A) Raise the pendulum to the latched position. Without a specimen in the machine, release the pendulum and permit it to swing 11 half cycles; after the pendulum starts its 11th half cycle, move the pointer to between 5 to 10 % of scale range capacity and record the dial reading(Joules or ft-lbf)
(B) Divide the value by 11, then divide by the maximum scale range of the machine and multiply by 100. The result, friction and windage loss, should not exceed 0.4 %.
10. With the specimen removed from your machine and the pendulum released from its latched position, what is the dial reading after one swing?
(Joules or ft-lbf) This reading should be zero. If this reading is not zero and your machine is equipped with a compensated scale, please adjust the dial to read zero. If your machine is equipped with a non-compensated scale, please compensate the energy values for windage and friction by subtracting the windage and friction value calculated in item 13.
11. When was your machine last verified by the NIST? Date:
12. Is your machine equipped with a direct reading scale or a non-compensated scale?

8. With the pendulum in the free hanging position, engage the energy indicator. The indicator

July 2006 Page 2 of 4

WRAPPING INSTRUCTIONS

To expedite the evaluation of your machine, please secure the 5 broken specimens (10 halves) from a particular energy series, as one unit with **clear cellophane tape** according to the following instructions. See diagram below.



- 1. Keep broken halves correctly paired (back to back) with the fracture surfaces facing upward and notched surfaces facing outward.
- 2. Coat the **FRACTURE SURFACES ONLY** with a light coat of oil. **DO NOT** use grease or coat in plastic.
- 3. Include this completed questionnaire with the fractured specimens.
- 4. Be sure that you use the MAILING LABEL provided with the specimens, and attach the label so that it is clearly displayed on the OUTSIDE of the package. This will expedite delivery to the Charpy Coordinator. Customers returning specimens from outside the United States should include the following statement on the U.S. Customs Declaration:

 Contents include U.S. manufactured steel test bars being returned to the U.S. for evaluation and are valued at less than 10 U.S. dollars.

July 2006 Page 3 of 4

TEST RESULTS

INDICATE ENERGY UNITS (circle units used)

Joules or ft·lbf

Series	
SRM 2115	
Specimen Number	Value
Average Value	

Date of Test	
Date of Test(Month/ Day/ Year)	
PRINT Test Operator	TelephoneFax
SIGNATURE Test Operator	Email
PRINT Company Representative	TelephoneFax
SIGNATURE Company Representative	Email
	ne Defense Contract Management Command (DCMC), a ner signature and the DCMC seal to indicate that the overnment representative.
Print Name of DCMC Official	DCMC Seal
Signature of DCMC Official and Seal	
DCMC Office Location	

July 2006 Page 4 of 4